

$$\log \frac{18}{18} = 0.18$$

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$$\frac{18}{18}$$

$$= \log \frac{18}{18} = \frac{\log 18}{\log 18} + \frac{\log 18}{\log 18} = 1.18$$

$$(a \log r) x^r + a x + b \log r = a \quad (10)$$

$$x = -1 = \frac{a}{a} \rightarrow a + c = b$$

$$a \log r + b \log r = a$$

$$a - a \log r = b \log r$$

$$a(1 - \log r) = b \log r \rightarrow \frac{b}{a} = \frac{1 - \log r}{\log r}$$

$$= \frac{\log 10 - \log r}{\log r} = \frac{\log 10}{\log r} = \frac{b}{a} \Rightarrow$$

$$(\sqrt{r})^{\frac{b}{a}} = (r^{\frac{1}{r}})^{\log \frac{b}{a}}$$

$$\frac{1}{r} \log \frac{b}{a} = \frac{1}{r} \log r^{\frac{b}{a}} = \frac{b}{a} = \sqrt{a}$$